

## Pacific Basin Area Field Office GeoData Structure

### Introduction

USDA has developed a set of standards governing the management of GIS data in Field Offices. These standards may be found in the [Manual for Managing Geospatial Datasets in Service Centers](#). These standards identify data geospatial file naming conventions and data location on the Common Computing Environment (CCE) servers. This document includes a description of the type and location of geospatial data that are being distributed to Field Offices in the Pacific Basin.

### Data Location

All GIS data will reside on the CCE server and can be accessed from any CCE computer by navigating to the **F:\geodata** folder. This folder contains a standard set of “thematic” subfolders. That is, the subfolder names each represent a unique “theme” (or subject) which describes the geospatial data stored in that subfolder. For example, if one wanted to access GIS data for roads, one would navigate to the **F:\geodata\transportation** subfolder.

The following set of subfolders will reside on the Local Office Server (F:Drive) in all Pacific Basin Area Field Offices.

<i>air_quality</i>	<i>environmental_easements</i>	<i>measurement_services</i>
<i>cadastral</i>	<i>geographic_names</i>	<i>ortho_imagery</i>
<i>census</i>	<i>geology</i>	<i>project_data</i>
<i>climate</i>	<i>government_units</i>	<i>soils</i>
<i>common_land_unit</i>	<i>hazard_site</i>	<i>topographic_images</i>
<i>conservation_practices</i>	<i>hydrography</i>	<i>transportation</i>
<i>cultural_resources</i>	<i>hydrologic_units</i>	<i>wetlands</i>
<i>disaster_events</i>	<i>imagery</i>	<i>wildlife</i>
<i>ecological</i>	<i>land_site</i>	<i>zoning</i>
<i>elevation</i>	<i>land_use_land_cover</i>	
<i>endangered_habitat</i>	<i>map_indexes</i>	

Some of these subfolders will contain no data until issued by national data development teams, while other data may be developed locally. These subfolders are a first attempt at anticipating the major themes of data that will be used by Service Center Agencies (SCA). Additional folders will be added in the future.

## File Naming

The USDA [Standard for Geospatial Dataset File Naming](#) defines the naming convention that is used for geospatial data files. File names will, for the most part, follow this format:

*<theme>\_<feature type>\_<geographic location>\_<yyyymmdd>*

*<theme>* - A short description identifying what geophysical features are represented by the data

*<feature type>* - Data is represented as lines (l), polygons (a), points (p), etc.

*<geographic location>* - Geographic extent of the data is the two letter postal code and county FIPS code or state soil survey ID and island name (if not designated as a county FIPS code.

*<yyyymmdd>* - Optional year/month/day.

In the Pacific Basin, a typical naming format would be:

*<theme>\_<feature type>\_<state><county><island>\_<yyyymmdd>*

Example: The ArcView shapefile of farm plot polygons recorded April 4, 2003 on Agrihan island may be named: farmplots\_a\_mp085agrihan\_20030417.shp

If a Service Center administers multiple counties or island states, all of the data for each county (island state) and island will be included within the standard folder structure. In these cases, the *<geographic location>* portion of the file name will differentiate the location of the data layers for filing at the appropriate level.

Example: The Saipan Service Center administers Saipan, Tinian, Rota, and Northern Islands Counties. Therefore the “**transportation**” folder on the Saipan server will house the “roads” shapefile data in the transportation geodata subfolder under Saipan (mp110), Tinian (mp120), Rota (mp100), and Northern Islands(mp085)/Maug island under the appropriate sub-folder for each county and/or Island as illustrated in Table 1:

**Table 1. Pacific Basin Area GEODATA Folder Structure.**

Geodata Sub-Folder	County Sub-Folder	Island Sub-Folder	File Name
<i>transportation</i>	<i>northern_islands</i>	<i>maug</i>	roads100k_1_mp085maug
<i>transportation</i>	<i>rota</i>		roads100k_1_mp100
<i>transportation</i>	<i>saipan</i>		roads100k_1_mp110
<i>transportation</i>	<i>tinian</i>		roads100k_1_mp120

Notice that because Rota, Saipan, and Tinian are considered as “Counties”, they need no additional island subfolders. The Northern Islands (*northern\_islands*) county has a subfolder for each island: *agrihan*, *alamagan*, *anatahan*, *farallon\_de\_pagaros*, *guguan*, *maug*, *medinila*, *pagan*, *pajaros*, and *sarigan*. In all cases for the Pacific Basin, if island geodata is available, then add the island name to the *<geographic location>* portion of the name of the file and file under the island name as illustrated in the *northern\_islands* example above.

Some data layers may be acquired from local sources in the Pacific Basin Area. These layers will be renamed according to the USDA National Standard for Geospatial Datasets.

## County FIPS Codes

The *<geographic location>* portion of the file name will be state name followed by the county FIPS code as illustrated in Table 2:

**Table 2. Pacific Basin Area FIPS Code Chart.**

Field Office	FIPS Code Name	Island Abb.	County Name	County#
Barrigada	Guam	gu		000
Koror	Palau	pw	Aimeliik	002
Koror	Palau	pw	Airai	004
Koror	Palau	pw	Angaur	010
Koror	Palau	pw	Hatoboheit	050
Koror	Palau	pw	Kayangel	100
Koror	Palau	pw	Koror	226
Koror	Palau	pw	Melekeok	212
Koror	Palau	pw	Ngaraard	214
Koror	Palau	pw	Ngarchelong	218
Koror	Palau	pw	Ngardmau	222
Koror	Palau	pw	Ngatpang	224
Koror	Palau	pw	Ngchesar	226
Koror	Palau	pw	Ngermlengui	227
Koror	Palau	pw	Ngiwal	228
Koror	Palau	pw	Peleliu	350
Pago Pago	American Samoa	as	Eastern	010
Pago Pago	American Samoa	as	Manu'a	020
Pago Pago	American Samoa	as	Rose Island	030
Pago Pago	American Samoa	as	Swains Island	040
Pago Pago	American Samoa	as	Western	050
Pohnpei	Federated States of Micronesia	fm	Chuuk	002
Pohnpei	Federated States of Micronesia	fm	Kosrae	005
Pohnpei	Federated States of Micronesia	fm	Pohnpei	040
Pohnpei	Federated States of Micronesia	fm	Yap	060
Maite	Marshall Islands	mh	Ailinginae	007
Maite	Marshall Islands	mh	Ailinglaplap	010
Maite	Marshall Islands	mh	Ailuk	030
Maite	Marshall Islands	mh	Arno	040
Maite	Marshall Islands	mh	Aur	050
Maite	Marshall Islands	mh	Bikar	060

Field Office	FIPS Code Name	Island Abb.	County Name	County#
Maite	Marshall Islands	mh	Bikini	070
Maite	Marshall Islands	mh	Bokak	073
Maite	Marshall Islands	mh	Ebon	080
Maite	Marshall Islands	mh	Enewetak	090
Maite	Marshall Islands	mh	Erikub	100
Maite	Marshall Islands	mh	Jabat	110
Maite	Marshall Islands	mh	Jaluit	120
Maite	Marshall Islands	mh	Jemo	130
Maite	Marshall Islands	mh	Kili	140
Maite	Marshall Islands	mh	Kwajalein	150
Maite	Marshall Islands	mh	Lae	160
Maite	Marshall Islands	mh	Lib	170
Maite	Marshall Islands	mh	Likiep	180
Maite	Marshall Islands	mh	Majuro	190
Maite	Marshall Islands	mh	Malielap	300
Maite	Marshall Islands	mh	Mejit	310
Maite	Marshall Islands	mh	Mili	320
Maite	Marshall Islands	mh	Namorik	330
Maite	Marshall Islands	mh	Namu	340
Maite	Marshall Islands	mh	Rongelap	350
Maite	Marshall Islands	mh	Rongrik	360
Maite	Marshall Islands	mh	Toke	385
Maite	Marshall Islands	mh	Ujae	390
Maite	Marshall Islands	mh	Ujelang	400
Maite	Marshall Islands	mh	Utrik	410
Maite	Marshall Islands	mh	Wotho	420
Maite	Marshall Islands	mh	Wotje	430
Saipan	Northern Mariana Islands	mp	Northern Islands	085
Saipan	Northern Mariana Islands	mp	Rota	100
Saipan	Northern Mariana Islands	mp	Saipan	110
Saipan	Northern Mariana Islands	mp	Tinian	120

## Available Data

The following data will be available at each USDA Service Center within the Pacific Basin for whichever county(s)/islands NRCS administers from that location. All data layers may not be available (or applicable) for all locations. The following file naming examples uses American Samoa (as) state and Eastern (010) county for the FPS location:

**F:\geodata\** - Top folder in the directory structure

***air\_quality\***

File naming to be determined.

***cadastral\***

plss\_l\_as010– Section corners

plss\_a\_as010 – PLSS Township and Range

***census\***

block\_groups00\_as010 – 2000 US Census Block Groups

tracts00\_as010 – 2000 US Census Tracts

***climate\******precip\***

precip\_a\_as010 – Mean annual precipitation by county

precip<month>\_a\_as010 – Mean monthly precipitation by county

precip<month>\_l\_as010 – Boundary of mean monthly precipitation by county

***temp\***

File naming to be determined.

***common\_land\_unit\***

dlu\_a\_as010 – FSA District Land Units (DLU), farm field boundary layer

***fsa\_clu\***

crp\_t\_as010 – FSA CRP data linked to CLU

clu\_a\_as010 – FSA Common Land Unit, Farm Field Boundary

wet\_p\_as010 – FSA wetland

***conservation\_practices\***

File naming to be determined.

***cultural\_resources\***

File naming to be determined.

***disaster\_events\***

<disaster\_type>\_a\_as010\_<date> - Describes the disaster area with unique identifier for the event, feature type, location, and date.

***fsa\_facilities\***

ffl\_p\_as010 – Point locations within the county of Fertilizer Facilities

ffsfl\_p\_as010 - Point locations within the county of Food, Feed, and Seed Facilities

***ecological\***

File naming to be determined.

***elevation\***

contour\_l\_as010 – USGS National Elevation Data Digital Elevation Model, hypsography line data, 1:24,000 scale

ngs\_p\_as010 – Point location and description of National Geodetic Survey Monuments

ned\_<lalong> – USGS National Elevation Dataset (NED) merged into a one-degree seamless raster format with elevations portrayed in decimeters.

<lalong> is the 2-digit latitude and 3-digit longitude for a one degree block

nez\_<lalong> - Reprojected USGS NED from adjacent UTM zone merged into one-degree block, 1:24,000 scale

nedshd\_<lalong> - USGS NED merged into a one-degree seamless shaded relief TIFF and .bil formats, 1:24,000 scale

nezshd\_<nnnnn> - Reprojected USGS NED from adjacent UTM zone merged into a one-degree seamless shaded relief TIFF and .bil formats, 1:24,000 scale

d<USGS DEM name> - USGS DEM ASCII file. USGS standard lat/long name with a “d” leading character

***endangered\_habitat\***

File naming to be determined.

***environmental\_easements\***

wrp\_a\_as – Aggregation of Wetlands Reserve Program (WRP) easements for State Field Offices

wrp\_a\_as010 – Aggregation of WRP easements for a specific Service Center area  
*fsa\*

flpce\_a\_as010 – Farm Loan Program Inventory Property (Conservation) easements

flpct\_a\_as010 – Farm Loan Program Conservation Transfers

dfn\_a\_as010 – Debt for Nature easements

***geographic\_names\***

gnis\_p\_as010 – Geographic Names Information Systems point data from GNIS cultural and topographic non-populated places files

***geology\***

File naming to be determined

***government\_units\***

blm\_a\_as010 – Bureau of Land Management (BLM)

boundary\_l\_as010 – USGS boundary line data, 1:24,000 scale

boundary\_a\_as010 - USGS boundary polygon data, 1:24,000 scale

congdist\_<nnn>\_a\_as – Full US Congressional Districts from census TIGER data  
<nnn> is the Congressional District number, e.g. 108

cities\_p\_as010 – GNIS populated places point layer

cnty24k\_a\_as010 – County boundary polygon layer, 1:24,000 scale

cnty24k\_l\_as010 – County boundaries for cartographic display, 1:24,000 scale

cnty100k\_a\_as010 – County boundary polygon layer, 1:100,000 scale, from census TIGER data

cnty100k\_l\_as010 - County boundaries for cartographic display, 1:100,000 scale, from census TIGER data

manfetr\_a\_as010 – USGS manmade feature polygon

manfetr\_l\_as010 – USGS manmade feature for cartographic display

ntlforest\_a\_as010 – National Forest polygon data

ntlforest\_l\_as010 – National Forest for cartographic display

ntlparks\_a\_as010 – National Parks polygon data

ntlparks\_l\_as010 – National Parks for cartographic display

tribal\_a\_as010 – Native American Lands polygon data

rcd\_a\_as010 – Full US Resource Conservation & Development Areas polygon data

state\_a\_pb – Full US state polygons

state\_l\_pb – Full US state polygons for cartographic display

swed\_a\_as010 – Full US Soil and Water Conservation District polygon data

urban\_a\_as010 – Urban area polygons from Census TIGER data, 1:100,000 scale

zip\_a\_as – Full US zip code points

***hazard\_site\***

File naming to be determined

***hydrography\***

damsites\_p\_as010 – National Inventory of Dams

femaq3\_a\_as010 – Federal Emergency Management Agency (FEMA) polygon data  
 hydro24k\_1\_as010 – USGS hydrography line data 1:24,000 scale  
 hydro100k\_1\_as010 - USGS hydrography line data 1:100,000 scale  
 nhd100k\_1\_<sub\_basin #> – USGS/EPA National Hydrography Dataset line data by 8 digit sub basin, 1:100,000 scale  
 nhd24k\_1\_<sub\_basin #> – USGS/EPA National Hydrography Dataset line data by 8 digit sub-basin, 1:24,000 scale  
 ssara\_p\_as010 – Sole source aquifer recharge areas  
 watbod\_a\_as010 – Census TIGER area features for water bodies hydrology, 1:100,000 scale

#### **hydrologic\_units\**

huc250k\_a\_us – NRCS 8-digit hydrologic unit data for US, 1:250,000 scale  
 huc250k\_a\_pb – NRCS 8-digit hydrologic unit data for Pacific Basin, 1:250,000 scale  
 wbd\_a\_<6th level subb huc> – Hydrologic Unit polygon data by sub-basin at the 4th, 5th, and 6th level, 1:24,000 scale  
 wbd\_a\_<4th level huc> - Hydrologic Unit polygon data by sub-basin at the 1th, 2th, 3rd and 4th level, 1:24,000 scale

#### **imagery\**

<source name>\_as010\_<pathrow>\_<yyyymmdd> - Other imagery files such as satellite or non-standard imagery.

<source name> - Name of satellite (landstat, ikonos, or quickbird), imaging company, or type, if special, i.e. LIDAR or LSAR

<pathrow> - Path and row of flight line

#### **compliance\_fsa\**

comp\_<latlonquad>\_<yyyymm> – Annual Compliance imagery for FSA  
 <latlonquad> - two numbers for latitude, three numbers for longitude and two numbers for the 01 to 64 quadrangle numbers in the one degree block

slides\_as010\_<ffffee>\_<yyyymm> – Scanned 35mm or digital slides.

<ffffee> - flight and exposure number

slides\_as010\_t<nn>\_r<nn>\_s<nn>\_<yyyymm> - Scanned 35mm or digital slides

t<nn> - Township, r<nn> - Range, s<nn> - Section

#### **land\_site/**

aboveground\_storage\_p\_as010 – County coverage of the location points of any kind of agricultural product aboveground storage facilities.  
 housing\_p\_as010 – Location points for instances of housing developments and/or foreclosures, within a county.  
 lagoon\_p\_as010 – Location points for lagoons and similar area in a county.  
 livestock\_facility\_p\_as010 – Location points of feedlots, pig and poultry facilities within a county.  
 stackyd\_a\_as010 – Location and shape of stackyards for hay/silage storage in a county.  
 storage\_p\_as010 – Location points for grain bins and similar facilities in a county.

underground\_storage\_p\_as010 – Location points for underground storage facilities in a county.

well\_p\_as010 – Location points of wellheads in a county.

#### ***land\_use\_land\_cover\***

lulc\_a\_as010 – USGS Land Use Land Cover polygons

nonveg\_a\_as010 – USGS non-vegetative polygon data (sand area, beach), 1:24,000 scale

nlcd\_as\_utm<zone> – USGS/EPA National Land Cover Dataset raster data, 30 meter scale

surfcvr\_a\_as010 – USGS surface cover polygon data (woods, brush, orchard, etc.)

vegdisturb\_a\_as010 – Vegetation disturbance area data

#### ***fsa\_compliance/***

crl\_a\_as010\_<yyyy> - FSA Crop Reporting Tool data

land\_use\_a\_as010 – FSA Commodity reporting data USA

land\_use\_d\_as010 – FSA Commodity reporting data foreign

#### ***map\_indexes\***

napp\_p\_as010 – National Aerial Photography Program (NAPP) data

quads12k\_a\_as010 – Quarter quad polygon data, 1:12,000 scale

quads20k\_a\_as010 – 7.5x7.5 quad polygon data, 1:20,000 scale

quads24k\_a\_as010 – 7.5x7.5 quad polygon data, 1:24,000 scale

quads25k\_a\_as010 – 7.5x7.5 and 7.5x15 quad polygon data, 1:25,000 scale

quads63k\_a\_as010 – 15x15 quad polygons, 1:63,360 scale

#### ***measurement\_services/***

meas\_service\_a\_as010 – Yearly file for all area measurement services

#### ***ortho\_imagery\***

ortho\_e<tot tiles>\_as010.sid – APFO MrSID county ortho mosaic of enhanced MDOQ

<tot tiles> - total number of tiles in the county mosaic

ortho<tot tiles>\_as010.sid – NCGC or NRCS MrSID county ortho mosaic of DOQQ

ortho\_aspagopago.sid – NRCS ortho mosaic of field office multi-state/county service area

<a><o/c><ltlongn>\_<qq>\_<yyyymmdd> – USGS DOQQ – Raster format (.bil, .bsq, .bip) and APFO .tiff files

<a> - leading character can be:

m –all DOQQs present and reside in dative UTM zone

x – there is a missing DOQQ in the DOQ

z – re-projected DOQ into dominant county UTM zone

<o/c> - use 'o' for black & white or 'c' for color imagery

<ltlongn> - two numbers for latitude, three numbers for longitude and two numbers for the 01 to 64 quadrangle number in the one degree block

<qq> - quarter quad section

<yyyymmdd> - optional year/month/day



***project\_data\***

Agency specific data - These folders provide a location for project-specific data storage. Additional sub-folders may be created as needed using the project name. Geodata and files should follow USDA Standard for Geospatial Dataset File Naming standards.

***fsa\***

Agency specific data for FSA use. Use the Pacific Basin naming format.

***nracs\***

Agency specific data for NRCS use. Use the Pacific Basin naming format.

***rd\***

Agency specific data for FSA use. Use the Pacific Basin naming format.  
 chattel\_p\_as010 – Known location points for customer-owned, moveable property, in a county. Multiple assets may be linked to a point.

***photographs/***

chattel\_p\_<id no>\_as010 – Photographs associated with the customer chattel points file. Use sequence numbers or other identifier for multiple photos

***rcd/***

Agency specific data for Resource Conservation Districts. Use the Pacific Basin naming format.

***swcd\***

Agency specific data for Soil and Water Conservation Districts. Use the Pacific Basin naming format

***public\_utilities/***

Use the Pacific Basin naming format.

***soils\***

crpdata\_d\_as010 – Excel spreadsheet with 1990 frozen soils data

mlra\_a\_us – Full US polygon data of Major Land Resources Area (MLRA) reselected to state area.

soil\_d\_as010 – Access database of soil survey attribute data in SSURGO structure format.

soil\_a\_as010 – SSURGO soils polygon data.

soil\_l\_as010 – Soils special features line data

soil\_p\_as010 – Soils special features point data

soilmosaic\_a\_<FO#> – Merged SSURGO polygon data for more than one soil survey area to support service center area of service

<FO#> - OIP office ID number (not OIP site ID number)

soilmosaic\_l\_<FO#> - Merged SSURGO line feature data for more than one soil survey area to support service center area of service

soilmosaic\_p\_<FO#> - Merged SSURGO point feature data for more than one soil survey area to support service center area of service

ssa\_a\_as010 – Polygon data limit of Soil Survey Area (SSA)

***topographic\_images\***

drg\_a\_as010.sid – County mosaic of 1:20K, 1:24K Digital Raster Graphs without map collar

drg\_a\_as<NFO#>.sid - NRCS field office multi-county service area DRG mosaic  
 <NFO#> - NRCS field office number  
 <a><USGS standard name>\_<yyyy> - USGS enhanced DRG with map collar removed.

<a> - One of the following characters indicating the USGS standard:

- c - 1:250,000, 1 x 2 degree topographic map image
- f - 1:100,000, 30' x 60' topographic map image
- g - 1:100,000, 30' x 60' planimetric map image
- j - 1:30,000, 7.5' x 7.5' topographic map image
- k - 1:25,000, 7.5' x 15' topographic map image
- l - 1:25,000, 7.5' x 7.5' topographic map image
- o - 1:24,000, 7.5' x 7.5' topographic map image
- p - 1:24,000, 7.5' x 7.5' provisional/orthophoto map image
- r - 1:20,000, 7.5' x 7.5' topographic map image

#### ***transportation\***

misctrans24k\_l\_as010 - USGS power transmission lines, substation, pipelines, etc., 1:24,000 scale  
 misctrans100k\_l\_as010 - Census TIGER pipeline, power transmission lines, etc., 1:100,000 scale  
 railroads24k\_l\_as010 - USGS railroads layer, 1:24,000 scale  
 railroads100k\_l\_as010 - Census TIGER railroads layer, 1:100,000 scale  
 roads24k\_l\_as010 - USGS roads layer, 1:24,000 scale  
 roads100k\_l\_as010 - Census Tiger roads layer, 1:100,000 scale

#### ***wetlands\***

nwi\_a\_as010 - F&WS National Wetland Inventory (NWI) polygon data  
 nwilfetr\_l\_as010 - NWI linear features, line data  
 nwi\_l\_as010 - NWI outlines for cartographic display, polygon data  
 nwi\_p\_as010 - NWI point data  
 wetland\_l\_as010 - Boundaries of natural or constructed wetlands, by county

The following sub folders can be added as an additional layer of subfolders under each of the major ***geodata/*** theme folders:

#### ***gps\_data/***

<subject>\_xd\_<geographic location>\_<yyyymmdd>.mps - GPS download file  
 <subject>\_xd\_<geographic location>\_<yyyymmdd>.dxf - GPS download export file  
 <subject>\_<data type>\_<geographic location>\_<yyyymmdd>.shp - GPS shape file

#### ***photographs/***

<identifier>\_y\_<yyyymmdd>\_<sequence number> - Photo name made up of the following:  
 <identifier> - Subject of the photo, i.e. "taro\_patch\_johana\_farm".  
 <yyyymmdd> - Date indicating when photo was taken.  
 <sequence number> - If multiple pictures were taken, a sequence number (i.e. 1,2,3) can be added to give each photo a unique name.

## Geodata Component Files

Geodata formats are composed of a complex of files and databases that are linked to produce the images, maps and data reports. Here we will call them “component files”. The following will introduce an awareness of the complexity of geodata and how to safely rename and move the files.

### Shapefile

Every shapefile will be composed of the following three files:

- .shp – Feature geometry
- .shx – Feature geometry index
- .dbf - Dbase file containing feature attribute data (ArcView table)

Additionally, the following file types may also exist:

- .sbn and .sbx – Spatial index of features
- .ain and .aix – Attribute index for active fields in a table

For example, the shapefile “cnty24k\_a\_as010” is actually made up of three different files: “cnty24k\_a\_as010.shp”, “cnty24k\_a\_as010.dbf”, and “cnty24k\_a\_as010.shx”. Similarly, the DOQ mosaic image “ortho1-1\_as010” might be composed of the files “ortho1-1\_as010.sid” and “ortho1-1\_as010.sdw”.

Shapefiles may be moved as a group to another folder. Renaming is more difficult because of internal references that link the files together. In ArcView, shape file themes may be ‘Saved as’ and placed in another directory with a different name, or use the ArcCatalog program in ArcGIS to safely change shapefile names and locations. Another program designed to assist in migrating shapefiles is the [GeoData Conversion Utility](#).

This program is designed to assist in renaming and moving ArcView .avx and shapefiles files.

### ArcInfo Coverages

An ArcInfo coverage is made up of a related set of databases and files describing points, vectors, and attribute data. The database files must reside in an ArcInfo workspace directory and in its Info database folder. To move or make changes in the location of any of the coverage’s files or Info database folder will disassociate the databases and destroy the coverage. The best method of changing the names and locations of ArcInfo coverages is to use the ArcCatalog program in ArcGIS or know how to use the ArcInfo system.

### Image component files

Images differ from shapefiles in that they are generally composed of just two files: one data file containing a blanket-like coverage of the image data, and either a “world file” which identifies what location on the face of the Earth that “blanket” covers, or a “header file” which contains information describing the image data.

Depending on image format, the following file types may exist:

GeoTIFF format:

.tif – data file

.tfw – world file

MrSID format:

.sid – data file

.sdw – world file

Binary sequential (BSQ), interleaved by pixel (BIP), interleaved by line (BIL) formats:

.bsq/.bip/.bil – data file

.hdr – header file

Additionally, BSQ/BIL/BIP files may also possess a “colormap” file that contains color information for each pixel, and a “statistics” file that contains statistical information about the data value of each pixel. These image files must be moved as a group. To change these files, it is best to ‘open’ them in a viewer and ‘Save as’ a new named file and location.

For more information, go to the [USDA Service Center for Agencies Geographic Information Systems](#) or their [Geodata Management](#) website.